

EAST Search History**EAST Search History (Prior Art)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	3	takumai.in. and \$4speaker and (region\$1 row\$1) and array	US- PG PUB; US PAT; US OOR; F PRS; E PO; J PO	OR	OFF	2008/08/20 11:30
S3	1	takumai.in. and (\$4speaker and (region\$1 row\$1) and array) and (pass\$4 near5 frequency near5 band)	US- PG PUB; US PAT; US OOR; F PRS; E PO; J PO	OR	OFF	2008/08/20 13:51
S4	62	yamaha.AS. and \$4speaker and (region\$1 row\$1) and array	US- PG PUB; US PAT; US OOR; F PRS; E PO; J PO	OR	OFF	2008/08/20 13:51
S6	4	("7113602" or ("7003124" or ("5146507" or ("5789689")).FN.	US PAT	OR	OFF	2008/08/20 15:08
S7	9	yamaha.AS. and \$4speaker and (region\$1 row\$1) and array and (opposite near5 end)	US- PG PUB; US PAT; US OOR; F PRS; E PO; J PO	OR	OFF	2008/08/20 15:14
S8	3	yamaha.AS. and \$4speaker and (region\$1 row\$1) and array and (small\$3 near5 region\$1)	US- PG PUB; US PAT; US OOR; F PRS; E PO; J PO	OR	OFF	2008/08/20 15:17
S9	3081	(381/1,17,92,111,122).OCLS.	US- PG PUB; US PAT; US OOR; F PRS; E PO; J PO	OR	OFF	2008/08/20 15:22
S10	317	"381"/\$.cls. and direct\$4 and ((high near3 pass) treble) and ((low near5 pass) bass) and (mid\$3 near3 frequency)	US- PG PUB; US PAT; US OOR; F PRS; E PO;	OR	OFF	2008/08/20 15:24

				UPO			
S11	239	"381"/\$.cls. and directi\$4 and ((high near3 pass) treble) and ((low near5 pass) bass) and (mid\$3 near3 frequency) and \$4speakers	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/08/20 15:25	
S12	625	(381/18,335).CCLS.	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/08/20 15:43	
S13	50	"381"/\$.cls. and directi\$4 and ((high near3 pass) treble) and ((low near5 pass) bass) and (mid\$3 near3 frequency) and ((transducer \$4speaker\$1) near5 array)	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/08/20 15:56	
S14	24	(*4468530).URPN.	USPAT	OR	OFF	2008/08/20 16:06	
S15	201	(381/27).COLS.	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/08/20 19:02	
S16	169	"381"/\$.cls. and directi\$4 and ((high near3 pass) treble) and ((transducer \$4speaker\$1) near5 array)	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/08/20 19:08	
S17	11	"381"/\$.cls. and ((transducer \$4speaker\$1) near5 array) near20 stereo near20 surround	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/08/22 09:51	
S18	6	"381"/\$.cls. and ((transducer \$4speaker\$1) near5 array) and (stereo near20 surround near20 filter\$3)	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/08/22 09:53	
S19	36	"381"/\$.cls. and (transducer\$1 \$4speaker\$1) and (stereo near20 surround near20 filter\$3)	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2008/08/22 09:54	
S20	5	"381"/\$.cls. and (transducer\$1	US-	OR	OFF	2008/08/22	

		\$4speaker\$1) and (stereo near20 surround near20 filter\$3 near20 cent\$3)	PGPUB; USPAT; USOOR; FPRS; EPO; JPO			09:54
S21	95	"381"/\$.cols. and (transducer\$1 \$4speaker\$1) and ((stereo surround) near20 filter\$3 near20 cent\$3)	US- PGPUB; USPAT; USOOR; FPRS; EPO; JPO	OR	OFF	2008/08/22 09:57
S22	1	"381"/\$.cols. and ((frequency near3 band) near10 increas\$3 near10 opposite near10 cent\$3 near10 array)	US- PGPUB; USPAT; USOOR; FPRS; EPO; JPO	OR	OFF	2008/08/22 10:01
S23	23	"381"/\$.cols. and (frequency near10 (middle center) near10 (\$4speaker\$1 transducer\$1) near10 array)	US- PGPUB; USPAT; USOOR; FPRS; EPO; JPO	OR	OFF	2008/08/22 10:07
S24	5	("4747142").URPN.	USPAT	OR	OFF	2008/08/22 10:21
S25	1	("5953432").URPN.	USPAT	OR	OFF	2008/08/22 10:21
S26	3245	(381/1,17,92,111,122).COLS.	US- PGPUB; USPAT; USOOR; FPRS; EPO; JPO	OR	OFF	2009/03/20 14:25
S27	646	(381/18,335).COLS.	US- PGPUB; USPAT; USOOR; FPRS; EPO; JPO	OR	OFF	2009/03/20 14:25
S28	209	(381/27).COLS.	US- PGPUB; USPAT; USOOR; FPRS; EPO; JPO	OR	OFF	2009/03/20 14:25
S29	3	takumai.in. and \$4speaker and (region\$1 row\$1) and array	US- PGPUB; USPAT; USOOR; FPRS; EPO; JPO	OR	OFF	2009/03/20 14:25
S30	6	konagai.in. and \$4speaker and (region\$1	US-	OR	OFF	2009/03/20

		row\$1) and array	PGPUB; USPAT; USOOR; FPRS; EPO; JPO			14:27
S32	1878	(381/77,95-97,89,80).CCLS.	US- PGPUB; USPAT; USOOR; FPRS; EPO; JPO	OR	OFF	2009/03/20 14:40
S33	0	takumai.in. and \$4speaker and (region\$1 row\$1) and array and (center near5 channel near5 direction\$1)	US- PGPUB; USPAT; USOOR; FPRS; EPO; JPO	OR	OFF	2009/03/28 15:42
S34	0	takumai.in. and \$4speaker and (region\$1 row\$1) and array and (center near5 direction\$1)	US- PGPUB; USPAT; USOOR; FPRS; EPO; JPO	OR	OFF	2009/03/28 15:42
S35	1	takumai.in. and \$4speaker and (region\$1 row\$1) and array and direction\$1	US- PGPUB; USPAT; USOOR; FPRS; EPO; JPO	OR	OFF	2009/03/28 15:42
S36	0	takumai.in. and \$4speaker and (region\$1 row\$1) and array and (center near5 non- direction\$1)	US- PGPUB; USPAT; USOOR; FPRS; EPO; JPO	OR	OFF	2009/03/28 15:43
S37	0	takumai.in. and \$4speaker and (region\$1 row\$1) and array and (non-direction\$1)	US- PGPUB; USPAT; USOOR; FPRS; EPO; JPO	OR	OFF	2009/03/28 15:43
S38	3367	(381/1,17,92,111,122).CCLS.	US- PGPUB; USPAT; USOOR; FPRS; EPO; JPO	OR	OFF	2009/09/13 17:40
S39	659	(381/18,335).CCLS.	US- PGPUB; USPAT; USOOR; FPRS; EPO;	OR	OFF	2009/09/13 17:40

				JPO			
S40	214	(381/27).OCLS.	US- PGPUB; USPAT; USOOR; FPRS; EPO; JPO	OR	OFF	2009/09/13 17:40	
S41	1928	(381/77,95-97,89,80).OCLS.	US- PGPUB; USPAT; USOOR; FPRS; EPO; JPO	OR	OFF	2009/09/13 17:40	
S42	1	"381"/\$.cls. and frequency near10 band near10 \$4speaker\$1 near10 opposite near10 (center central) near10 array	US- PGPUB; USPAT; USOOR; FPRS; EPO; JPO	OR	OFF	2010/04/22 10:14	
S43	0	"381"/\$.cls. and (requency near10 band near10 \$4speaker\$1 near10 opposite near10 (center central) near10 array) and decrease	US- PGPUB; USPAT; USOOR; FPRS; EPO; JPO	OR	OFF	2010/04/22 10:16	
S44	0	"381"/\$.cls. and (requency near10 band near10 \$4speaker\$1 near10 opposite near10 (center central) near10 array) and decreas\$3	US- PGPUB; USPAT; USOOR; FPRS; EPO; JPO	OR	OFF	2010/04/22 10:17	
S45	1	"381"/\$.cls. and (requency near10 band near10 \$4speaker\$1 near10 opposite near10 (center central) near10 array) and decrease	US- PGPUB; USPAT; USOOR; FPRS; EPO; JPO	OR	OFF	2010/04/22 10:17	
S46	0	"381"/\$.cls. and (high\$2 near10 frequency near10 band near10 (allocat\$3 assign\$3 reallocat\$3 allot\$3 portion\$3) near10 (small\$3 decreas\$3) near10 number near10 \$4speakers)	US- PGPUB; USPAT; USOOR; FPRS; EPO; JPO	OR	OFF	2010/04/22 12:38	
S47	3520	(381/1,17,92,111,122).OCLS.	US- PGPUB; USPAT; USOOR; FPRS; EPO; JPO	OR	OFF	2010/04/25 15:05	
S48	1982	(381/77,95-97,89,80).OCLS.	US- PGPUB; USPAT; USOOR;	OR	OFF	2010/04/25 15:05	

			FPRS; EPO; JPO			
S49	867	(381/18,335,27).OCLS.	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2010/04/25 15:05
S53	45	((“20010016047”) or (“20020191807”) or (“20030185404”) or (“20040071299”) or (“20040151325”) or (“20040193050”) or (“20040252844”) or (“20050089182”) or (“20050271230”) or (“20060050897”) or (“20060153391”) or (“20060204022”) or (“20060233378”) or (“20070076905”) or (“20070165878”) or (“20070217621”) or (“20080159545”) or (“20080226093”) or (“20090060237”) or (“3772479”) or (“4024344”) or (“4118601”) or (“4472834”) or (“4503553”) or (“4984273”) or (“4991687”) or (“5109419”) or (“5524054”) or (“5631714”) or (“5666424”) or (“5675655”) or (“5930373”) or (“5953432”) or (“6005948”) or (“6128395”) or (“6181796”) or (“6240189”) or (“6285891”) or (“6498852”) or (“6535610”) or (“7054448”) or (“7319641”) or (“7515719”) or (“7822496”) or (“4227160”)).PN.	US- PGPUB; USPAT; USOCR	OR	OFF	2011/09/21 14:17
S54	1	(“5930370”).PN.	USPAT; USOCR	OR	OFF	2011/09/22 11:42
S55	6	takumi.in. and \$4speaker and (region\$1 row\$1) and array	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2011/09/26 14:41
S56	14	yamaha.AS. and \$4speaker and (region\$1 row\$1) and array and (opposite near5 end)	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2011/09/26 14:42
S57	9702863	b	US- PGPUB; USPAT; USOCR; FPRS; EPO; JPO	OR	OFF	2011/09/26 14:42
S58	2	(10/585654).APP.	US- PGPUB; USPAT; USOCR	OR	OFF	2011/09/26 14:44

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	5333	(381/1,17,92,111,122,77,95-97,89,80,18,335,27).COLS.	US- PGPUB; USPAT; UPAD	OR	OFF	2011/09/28 14:44
L2	1	L1 and (frequency near10 band near10 \$4speaker\$1 near10 opposite near10 (center central) near10 array) and decrease	US- PGPUB; USPAT; UPAD	OR	OFF	2011/09/28 14:44
L3	1	L1 and (frequency near10 band near10 \$4speaker\$1 near10 opposite near10 (center central) near10 array) and decreas\$3	US- PGPUB; USPAT; UPAD	OR	OFF	2011/09/28 14:44
L4	0	L1 and (high\$2 near10 frequency near10 band near10 (allocat\$3 assign\$3 reallocat\$3 allot\$3 portion\$3) near10 (small\$3 decreas\$3) near10 number near10 \$4speakers)	US- PGPUB; USPAT; UPAD	OR	OFF	2011/09/28 14:44
S50	2873	(381/1,17,92,111,122).COLS.	US- PGPUB; USPAT; UPAD	OR	OFF	2010/09/30 17:23
S51	4838	(381/1,17,92,111,122,77,95-97,89,80,18,335,27).COLS.	US- PGPUB; USPAT; UPAD	OR	OFF	2010/09/30 17:24
S52	1	S51 and (frequency near10 band near10 \$4speaker\$1 near10 opposite near10 (center central) near10 array) and decrease	US- PGPUB; USPAT; UPAD	OR	OFF	2010/09/30 17:24

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